

LIST OF ATTACHMENTS

1. Rules of the Station
2. Revised - Replace in its entirety - 01 91 00 General Commissioning Requirements
 - a. Exhibit 1 – Draft Cx Plan
 - b. Exhibit 2 – Sample PFC Sheets
 - c. Exhibit 3 – Sample FPT Sheets
3. Revised – Replace in its entirety – 01 33 23 Shop Drawings, Product Data Samples
4. Questions and Answers asked by Prospective Offerors
5. Revised – Replace in its entirety – 01 00 00 General Requirements
6. Revised – Replace in its entirety – 074229 Terracotta Rainscreen Panels
7. Revised – Replace in its entirety – Cost/Price Schedule
8. Drawings: Revised as noted

Volume 1

General

Sheet GI0.2.1 Updated Project General Notes

Civil

Sheet CS1.5.2 Move FDC from inside utility yard to the outside face of the utility yard wall. Add emergency domestic water connection along outside face of utility yard wall, with check valve, gate valve, and connection to domestic water service to RMVU

Sheet CS1.8.2 Detail 14 replaced with the new domestic water and fire water FDC connections

Volume 2

Architectural

Sheet AE0.1.1 Updated Architectural General Notes

Sheet AE2.1.1 Revised door AV392 and AV394
Added furring wall and revised wall type

Sheet AE2.1.1G Added furring wall and revised wall type

Sheet AE2.1.1J Revised door AV392 and AV394

Sheet AE2.1.3B Added door numbers to A1EC and A1202A

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Amendment #2
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Sheet AE2.1.3D	Added door number to A1ECB
Sheet AE2.1.3E	Added push plate at door C1500A
Sheet AE2.1.4E	Revised wall type Added push plate to door C2500
Sheet AE2.1.5E	Adjusted extent of roof walkway pad
Sheet AE3.1.3B	Changed ceiling finish
Sheet AE4.1.2	Removed keynote 4.63
Sheet AE5.2.2	Added arrows for notes on detail 36
Sheet AE5.3.2	Added detail 42
Sheet AE5.4.1	Revised note on detail 22
Sheet AE6.1.1A	Removed reference on detail 54
Sheet AE6.1.1B	Removed reference on detail 54
Sheet AE6.1.5	Added sheet missing in previous bid set
Sheet AE7.1.5	Deleted floor drain and slope in V-331B and V-331C
Sheet AE8.1.1	Deleted detail on elevation 24
Sheet AE9.1.3B	Changed portal finish
Sheet AE9.2.3	Split detail 18 into details 16 and 18 Updated sheet note
Sheet AE9.3.1	Revised door schedule and notes
Sheet AE9.3.2	Revised door schedule and notes
Sheet AE9.3.3	Added sheet note #18 Revised door and frame elevations Deleted couple HM details, added aluminum frame detail
Sheet AE9.3.4	Updated details

Sheet AE9.6.2 Updated details
Sheet AE9.7.1 Updated glazing type on details 26 and 32

Volume 3

Equipment

Sheet QL0.0.1 Adding to General Casework Note #13 "...AN EPOXY..."
Added the following note: "ALL TABLE FRAMES ARE TO BE PAINTED STEEL UNLESS OTHERWISE NOTES."

Sheet QL00.2 Adding to General Casework Note #13 "...AN EPOXY..."
Added the following note: "ALL TABLE FRAMES AND LEGS ARE TO BE PAINTED STEEL UNLESS OTHERWISE NOTES."

Sheet QL0.3.2 Added missing "Open Lab" to Room Name column.

Sheet QL1.1.6 Updated the electrical phase for EQ3.26.101 PXI Precision X-Ray equipment from 1-phase to 3-phase.

Sheet QL1.3.1 Updated the electrical requirements for EQ1.03.103A

Sheet QL1.4.1 Updated the electrical requirements for EQ1.03.104A.

Sheet QL2.1.1 Added floor drain to Corridor CV-220 outside of Surgery Recovery V-222 per VA guide plates.
Added CW/HW hose bib to Surgery Recovery V-222 per VA guide plates.
Added two notes to General Notes.

Sheet QL2.1.2 Changed all CW hose bibs to CW/HW hose bibs in the following rooms:
Animal Holding V-352, V354, V-356, V-358, V-362, V-364 and V-366.
Added two notes to General Notes.

Sheet QL2.1.3 Changed all CW hose bibs to CW/HW hose bibs in the following rooms:
Animal Holding V-372, V374, V-376 and Quarantine V-378.
Added two notes to General Notes.

Sheet QL2.1.4 Added two notes to General Notes.

Sheet QL2.1.5 Changed all CW hose bibs to CW/HW hose bibs in the following rooms:
Animal Holding V-304, V-306, V-308, V310, V-343, V347, V-349, and V-378.
Added new floor drain to BSL-2 Cubicle Suite V-384
Added two notes to General Notes.

- Sheet QL2.1.6 Changed CW hose bib to CW/HW hose bib in the following room:
BSL-2 Cubical Suite V-384
Added missing equipment tag for hose reel in room BSL-2 Cubical Suite V-384
Added two new floor drain in room BSL-2 Cubical Suite V-384
Added new CW/HW hose bib to BSL-2 Ante V-382.
Added two notes to General Notes.
- Sheet QL2.1.7 Added two notes to General Notes.
- Sheet QL2.1.8 Changed CW hose bib to CW/HW hose bib in the following room:
Cage Wash Tunnel Washer + Cage/Rack Washer-Dirty Site V-305.
Added new floor drain at both emergency shower/eye wash on the dirty side (V-305) and clean side (V-303)
Added new floor drain by equipment in the south-west corner Clean Side (V-303)
Added new floor sinks next to the tunnel washer along the plan south wall in V-303.
Added two notes to General Notes.
- Sheet QL2.1.9 Changed CW hose bib to CW/HW hose bib in the following room:
Large Animal Quarantine V-394B.
Added one new floor drain in Animal Elevator Lobby V-390 outside of Animal Receiving V-394 and Non Commercial Procedure V-392.
- Sheet QL2.2.4 Added two notes to General Notes.
- Sheet QL2.2.8 Added two notes to General Notes.
- Sheet QL2.2.9 Added two notes to General Notes.
- Sheet QL2.3.1 Added two notes to General Notes.
- Sheet QL2.3.2 Added two notes to General Notes.
- Sheet QL2.3.3 Added two notes to General Notes.
- Sheet QL2.3.4 Added two notes to General Notes.
- Sheet QL2.3.5 Added two notes to General Notes.
- Sheet QL2.3.6 Added two notes to General Notes.
- Sheet QL2.3.9 Added two notes to General Notes.

Sheet QL2.4.1	Added two notes to General Notes.
Sheet QL2.4.2	Added two notes to General Notes.
Sheet QL2.4.3	Added two notes to General Notes.
Sheet QL2.4.4	Added two notes to General Notes.
Sheet QL2.4.5	Added two notes to General Notes.
Sheet QL2.4.6	Added two notes to General Notes.
Sheet QL8.1.1	Changed all CW hose bibs to CW/HW hose bibs in the following rooms: Animal Holding V-352, V354, V-356, V-358, V-362, V-364 and V-366. (Views: 38 on Sheet QL8.1.1)
Sheet QL8.1.3	Changed all CW hose bibs to CW/HW hose bibs in the following rooms: Animal Holding V-352, V354, V-356, V-358, V-362, V-364 and V-366. (Views: 35, 39 & 42 on Sheet QL8.1.3)
Sheet QL8.1.6	Added new CW/HW hose bib to room BSL-2 Ante room (View: 37 on Sheet QL8.1.6)
Sheet QL8.1.7	Changed CW hose bib to a CW/HW hose bib in room BSL-2 Cubical Suite V-384 (View: 42 on Sheet QL8.1.7)
Sheet QL8.1.8	Changed CW hose bib to a CW/HW hose bib in room Cage Wash Tunnel Washer + Cage/Rack Washer-Dirty Site V-305. (View: 23 on Sheet QL8.1.8) Changed CW hose bib to a CW/HW hose bib in room Large Animal Quarantine V-394B (View: 50 on Sheet QL8.1.8)

Volume 4
Mechanical

Sheet MH2.1.1E	Revised low exhaust grille type Added filter to low exhaust grille in Animal Holding Rooms V-306 & V-308. Revised keynote # M2.035.
Sheet MH2.1.1F	Added exhaust duct to trimming table. Added keynote # M2.052.

Added 1 supply grille and adjust airflow to make-up the trimming table exhaust.

- Sheet MH2.1.2 Added general note #1.
- Sheet MH2.1.2F Revised Necropsy exhaust duct to accommodate trimming table exhaust.
Revised supply duct size and layout of TU-U-60.
Added keynote # M2.053.
- Sheet MH2.1.3E Revised exhaust duct size from 24x6 to 24x10 in the shaft.
- Sheet MH2.1.4E Revised exhaust duct size from 24x6 to 24x10 in the shaft.
- Sheet MH2.1.5E Revised exhaust duct size connected to EF-10.
- Sheet MH3.1.8 Revised exhaust duct size callout to match the plan.
- Sheet MH3.1.9 Revised exhaust duct size callout to match the plan.
- Sheet MH6.1.1 Added E-1 grille type to schedule.
- Sheet MH6.1.4 Revised EF-10 airflow quantity and electrical info.
- Sheet MH6.1.8 Revised FS-U-26 inlet and outlet size.
- Sheet MH6.1.9 Revised TU-U-60 size, airflow, GPM and reheat coil capacity.
- Sheet MH8.1.3 Revised Bio Safety Cabinet with Air Valves control diagram and sequence of operation.
- Sheet MH8.1.4 Revised TCP point configuration and control diagram.
- Sheet MP2.1.1 Added sheet missing in previous bid set.
- Sheet MP2.1.1A Added sheet missing in previous bid set.
- Sheet MP2.1.2 Added general note #1.

Volume 5

Plumbing

- Sheet PP2.1.1A Added floor drain and trap primer piping in Corridor.
Added hot and cold water mixing hose bibb, P-802, to Surgery Recovery

Room V-222.

- Sheet PP2.1.1B Revised CW hose bibb P-804 to HW and CW mixing hose bibb P-802 in Animal Holding Rooms V-352, V-354, V-356, V-358, V-362, V-364 and V-366.
- Sheet PP2.1.1C Revised CW hose bibb P-804 to HW and CW mixing hose bibb P-802 in Animal Holding Rooms V-372, V-374, V-376 and V-378.
- Sheet PP2.1.1E Revised CW hose bibb P-804 to HW and CW mixing hose bibb P-802 in Animal Holding Rooms V-343, V-345, V-347 and V-349.
Revised location of HW and CW mixing hose bibb P-802 in Animal Holding Rooms V-304, V-306, V-308 and V-310.
Added Floor Drain and Trap Primer connection in Animal Water V-312A.
Deleted (2) Floor Drains and Trap Primer connections in Cage Wash Clean Side V-303.
Revised Floor Sink location in pit under Cage and Rack Washer in Cage Wash Clean Side V-303.
- Sheet PP2.1.1F Added Floor Drain and Trap Primer connection in BSL 2 Cubicle V-384.
Revised CW hose bibb P-804 to HW and CW mixing hose bibb P-802 in BSL 2 Cubicle V-384.
Added HW and CW mixing hose bibb P-802 in BSL 2 Ante V-382.
Deleted Floor Drain and Trap Primer connection in Corridor V-300.
Revised Floor Drain type C to Floor Drain type S in Cold Carcass V-309.
Added Trap Primer to floor drains in Mechanical V-ME2.
- Sheet PP2.1.1H Deleted Floor Drain and Trap Primer connection in Cage Wash Clean Side V-303.
Added Trap Primer Valves in wall boxes and revised trap primer pipe routing in Cage Wash Clean Side V-303.
Relocated (2) Floor Drains Type S at Tunnel Washer in Cage Wash Clean Side V-303.
Added Trap Primer Valves in wall boxes and revised trap primer pipe routing in Cage Wash Dirty Side V-305.
- Sheet PP2.1.1J Revise location of Floor Drain type C and revise Trap Primer routing in Animal Elevator Lobby V-390.
Delete Floor Drain type F and Trap Primer piping in Animal Quarantine V-394A.
Delete HW and CW mixing hose bibb P-802 behind door in Large Animal

Quarantine V-394B.

Sheet PP2.1.2	Added general note #1.
Sheet PP2.1.2A	Add Trap Primer TP-2 and revise piping as shown.
Sheet PP2.1.2B	Add Trap Primers TP-2 and revise piping as shown.
Sheet PP2.1.2C	Add Trap Primer TP-2 and revise piping as shown.
Sheet PP2.1.2D	Add Trap Primers TP-2 and revise piping as shown.
Sheet PP2.1.2E	Add Trap Primers TP-2 and revise piping as shown.
Sheet PP2.1.2F	Add Trap Primers TP-2 and revise piping as shown.
Sheet PP2.1.2H	Revise piping as shown.
Sheet PP2.1.2J	Add Trap Primer TP-2 and revise piping as shown.
Sheet PP2.2.2	Added general note #1.
Sheet PP2.4.1	Detail 54 - Add Floor Drain Type S. Revise Floor Drain type B to type S where shown. Add TP-1 in locations shown and reroute trap primer piping.
Sheet PL2.1.0A	Added sanitary waste & vent to floor drain added in Corridor CV-220.
Sheet PL2.1.0C	Added sanitary waste & vent to floor drain added in Mechanical Room.
Sheet PL2.1.0E	Added sanitary waste & vent to floor drain added in BSL-2 Cubicle Suite V-384. Added acid waste & vent to floor sink in animal water V-312A. Added vent piping abc.
Sheet PL2.1.0F	Removed floor drain and all associated piping in corridor CV-380. Added sanitary waste & vent to floor drain added in BSL-2 Cubicle Suite V-384
Sheet PL2.1.0H	Added sanitary waste & vent to floor drain added in Cage Wash V303 serving manifold unit. Revised sanitary waste & vent piping to new locations for floor sinks receiving condensate from hoods above tunnel washer.
Sheet PL2.1.0J	Removed floor drain and all associated piping in animal quarantine V-394A

Revised sanitary waste & vent piping to new location for floor drain in Animal Elevator Lobby V-390.

Sheet PL2.1.1A	Added floor drain in corridor CV-220. Added vent piping above ceiling.
Sheet PL2.1.1C	Revised location of floor sink in Mechanical Room.
Sheet PL2.1.1E	Added floor drain in BSL-2 Cubicle Suite V-384. Added floor sink in Animal Water V-312A.
Sheet PL2.1.1F	Removed floor drain in Corridor CV-380. Added floor drain in BSL-2 Cubicle Suite V-384 Added vent piping above ceiling.
Sheet PL2.1.1H	Added floor drain in Cage Wash V-303 serving manifold unit. Revised floor sink locations.
Sheet PL2.1.1J	Removed floor drain from Animal Quarantine V-394A and added floor drain to Animal Elevator Lobby V-390
Sheet PL2.1.2	Added general note #1.
Sheet PL2.1.2A	Revised 5" RWL drop from Gridline 2/B plumbing chase. Increased portion of RWL from 4" to 5".
Sheet PL2.1.3A	Revised 5" RWL drop from gridline 2/B to plumbing chase. Provided overflow leader drop elevation and specified to refer to Arch dwgs for exact location and elevation.
Sheet PL2.1.3B	Provided overflow leader drop elevation and specified to refer to Arch dwgs for exact location and elevation.
Sheet PL2.1.3D	Provided overflow leader drop elevation and specified to refer to Arch dwgs for exact location and elevation.
Sheet PL2.1.3E	Provided overflow leader drop elevation and specified to refer to Arch dwgs for exact location and elevation.
Sheet PL2.1.4A	Revised 5" RWL drop from gridline 2/B to plumbing chase

Volume 6

Electrical

Sheet EP3.1.1A	Revised circuiting to auto door operators; revised wiring to x-ray equipment; revised/added keynotes 3.06 and 3.18.
Sheet EP3.1.1B	Revised circuiting to auto door operators.
Sheet EP3.1.1E	Revised wiring and keynote 3.06.
Sheet EP3.1.1F	Revised circuiting to auto door operators; revised / added keynotes 3.14, 3.26, 3.27.
Sheet EP3.1.1G	Revised to GFCI outlet.
Sheet EP3.1.1H	Revised wire size and keynote 3.02.
Sheet EP3.1.1J	Added circuiting to auto door operator at V-394.
Sheet EP3.1.2D	Revised keynote 3.09.
Sheet EP3.1.2F	Revised keynote 3.09.
Sheet EP3.1.3B	Revised receptacle type and wiring; revised/added cold room equipment connections; added keynotes 3.15, 3.16.
Sheet EP3.1.3C	Revised receptacle type and wiring.
Sheet EP3.1.3D	Revised receptacle type.
Sheet EP3.1.3E	Added circuiting to auto door operator at C1-500; revise wiring and added keynote 3.13; added circuiting to glass wash equipment and added keynote 3.14.
Sheet EP3.1.4B	Revised receptacle type and wiring; revised/added cold room equipment connections; added keynotes 3.12, 3.13.
Sheet EP3.1.4C	Revised receptacle type and wiring.
Sheet EP3.1.4D	Revised receptacle type.
Sheet EP3.1.4E	Added circuiting to auto door operator at C2-500; revised wiring and added keynote 3.15; added circuiting to glass wash equipment and added keynote 3.16.

List of Attachments
Amendment #2
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Sheet EP5.1.7	Revised single line diagram.
Sheet EP5.1.8	Revised single line diagram.
Sheet EP7.0.1	Revised equipment schedules.
Sheet EP7.0.2	Revised mechanical equipment schedule.
Sheet EP7.1.0	Revised panel schedules.
Sheet EP7.1.1	Revised panel schedules.
Sheet EP7.1.2	Revised panel schedules.
Sheet EP7.3.1	Revised panel schedules.
Sheet EP7.3.2	Revised panel schedules.
Sheet EP7.3.3	Revised panel schedules.
Sheet EP7.3.4	Revised panel schedules.
Sheet EP7.3.5	Revised panel schedules.
Sheet EP7.3.6	Revised panel schedules.
Sheet EP7.3.7	Revised panel schedules.
Sheet EP7.4.1	Revised panel schedules.
Sheet EP7.4.2	Revised panel schedules.
Sheet EP7.4.3	Revised panel schedules.
Sheet EP7.4.4	Revised panel schedules.
Sheet EP7.4.6	Revised panel schedules.
Sheet EP7.5.1	Revised panel schedules.
Sheet EP7.5.2	Revised panel schedules.
Sheet EP7.6.1	Revised panel schedules.

Fire Alarm

Sheet FA3.1.1A	Added candela to strobe at V-303; deleted a fire alarm relay at door holder location.
Sheet FA3.1.1B	Added two (2) door holders, two (2) smoke detectors and one (1) fire alarm relay to CV-380; added keynote 3.09
Sheet FA3.1.3A	Deleted two (2) smoke detectors at alcoves, one (1) fire alarm relay at door holder location, and two (2) fire alarm relays at C1-100; deleted keynote 3.05.
Sheet FA3.1.4A	Deleted one (1) smoke detector at alcove and a fire alarm relay at door holder location.
Sheet FA3.1.4B	Added two (2) door holders, two (2) smoke detectors and one (1) fire alarm relay to C2-400A; added two (2) smoke detectors and one (1) fire alarm relay to C2-500; added keynotes 3.05 and 3.06.
Sheet FA5.1.2	Revised fire alarm riser diagram.

9. Specifications – Revised

Section 03 30 00	Added considerations for mass concrete in paragraphs 1.2.A, 1.7.G.3, 1.7.I, 2.4.B, 3.7.E and 3.10.B. Deleted paragraph 2.2.W; Not applicable to project. Added clarification for drying shrinkage measurement in paragraph 2.3.H. Modified paragraph 3.4.B to reference Section 07 26 13.13 and deleted paragraphs 3.4.B.1 and 2.
Section 05 51 13	Deleted 2.1.I.4, 2.4.H, 2.7.A.2 and portions of 3 referencing perforated metal. Added 2.1.I.5 for welded wire mesh.
Section 07 42 29	Revised 2.1.A.2 changed panel thickness
Section 08 11 13	Added 2.3.D Terminated Stops. Deleted 2.4 Louvers.
Section 08 11 19	Added 2.2.A.7 Terminated Stops.
Section 08 34	Corrected formatting errors.

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Section 08 71 00	Revised 3.6, hardware sets have been added and modified.
Section 08 80 00	Added 2.1.C wired flat glass. Revised 2.3.B.2 coating application. Revised 2.3.C.3 glass thickness. Deleted 3.8.C laminated glass in doors. Added 3.8.D.5 wired glass.
Section 08 90 00	Deleted 1.2.C and 2.4, no door louvers.
Section 09 06 00	Added 2.4.B Metal Composite Material Wall Panel. Added IG-4 to 2.5.I.
Section 09 29 00	Added 3.2.F, deleted 3.2.J.9.a, clarified yoked opening definition and procedure.
Section 12 31 00	Revised 2.3.D & E casework door and drawer panel types. Added 2.4.C for card and label holders.
Section 12 31 03	Added 2.5.A.2.a reference for wood requirements.
Section 13 05 41	Added clarification language to paragraph 1.1.A Deleted paragraph 1.1.B Deleted paragraph 1.5.G Added clarification to paragraph 1.6 and 1.6A. Added clarification to exceptions in paragraph 1.6.C and added paragraph 1.6.C.1. Added paragraph 3.2.B. Modified paragraph 3.3.D and 3.3D.1 to clarify criteria. Deleted paragraphs 3.3.D.1.a through c and 3.3.D.2.
Section 23 05 41	Revised 1.5, G and H, to correct code year reference and deleted code reference.
Section 23 09 23	Revised 1.1, K and L to delete utility metering by DDC contractor and to clarify utility monitoring is to be done by existing VAMC Palo Alto Schneider system. Revised 1.5 to correct control system response times. Revised 2.4, D, 18, to clarify monitoring of normal and emergency switchgear. Revised 2.12, B to change cable size.
Section 23 31 00	Revised 1.4 to Add underfloor duct reference. Revised 2.2 to clarify systems requiring use of stainless steel and the type

of steel.

Revised 2.2, H to add underfloor duct at Necropsy Table.

Revised 2.17, Corrected spec reference.

Revised 3.1, J Clarified protection and cleaning of equipment and duct..17,

Corrected spec reference

Section 23 36
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Revised 1.2, A to delete VAV fume hoods.

Revised 2.3, B, 2 to delete VAV fume hood valve speed.

Revised 2.3, B, 11 to add BSC hood valve materials.

Revised 2.3, B, 12 to valve test point quantity.

Revised 2.3, B, 14 revise to require shutoff air valve for exhausted BSCs.

Revised 2.4, D to delete VAV fume hood high speed actuators.

Revised 2.5, D revise note on location of animal trending requirements.

Revised 2.6, F to delete VAV fume hood controller.

Revised 2.6, G to delete 2 State fume hood controller.

Revised 2.6, H to delete unoccupied status.